

National Functional Guidelines Report #03

Lab DATA(ALS Environmental) SDG F2A94 Case 43795 Contract EPW11037 Region 6 DDTID 183120 SOW SOM01.2

Data Review Reports

Blanks

Blanks	VOA_Low_Med
VLB11	The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank common contaminant concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62 Methylene chloride F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62
Blanks	VOA_Low_Med
VLB12	The following volatile samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F2B04RE, F2B06, F2B40, F2B42, F2B44, F2B46, F2B50, F2B60 1,2-Dichlorobenzene F2B40, F2B42, F2B44, F2B46 m,p-Xylene F2B04RE, F2B40, F2B42, F2B44, F2B46, F2B50 Toluene F2B04RE, F2B06, F2B40, F2B42, F2B44, F2B46, F2B50, F2B60 1,2,3-Trichlorobenzene F2B40, F2B42, F2B44, F2B46 1,4-Dichlorobenzene F2B40, F2B42, F2B44, F2B46 Ethylbenzene F2B42, F2B50 1,2,4-Trichlorobenzene F2B40, F2B42, F2B44, F2B46 o-Xylene F2B42, F2B50 1,3-Dichlorobenzene F2B40, F2B42, F2B44, F2B46
Blanks	VOA_Low_Med
VLB46	The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank common contaminant concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62 Methylene chloride F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62
Blanks	VOA_Low_Med
VLB47	The following volatile samples have analyte concentrations reported less than the CRQL. The associated storage blank concentration is less than the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B50, F2B60 Tetrachloroethene F2B42, F2B50 Trichlorofluoromethane F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B50, F2B60

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Continuing Calibration Verification

Continuing Calibration Verification		VOA_Low_Med
VC14		The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS1, VBLKS2, VBLKS3, VHBLKS1		
1,4-Dioxane VSTD050S1, VSTD050S3, VSTD050S4, VSTD050SB		
1,2,3-Trichlorobenzene VSTD050S3		
1,2,4-Trichlorobenzene VSTD050S3		
F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS1, VBLKS2, VBLKS3, VHBLKS1		
Continuing Calibration Verification		VOA_Low_Med
VC21		The following volatile samples are associated with a continuing calibration in which a DMC exceeded percent difference (%D) criteria. Detected and nondetected compounds are not qualified.
F2B00, F2B02RE, F2B04RE, F2B06, VBLKS2		
1,1,2,2-Tetrachloroethane-d2 VSTD050S3		
2-Hexanone-d5 VSTD050S3		
2-Butanone-d5 VSTD050S3		
1,4-Dioxane-d8 VSTD050S3		
F2B00, F2B02RE, F2B04RE, F2B06, VBLKS2		
Continuing Calibration Verification		VOA_Low_Med
VC8		The following volatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
F2B00, F2B02RE, F2B04RE, F2B06, VBLKS2		
Trichloroethene VSTD050S3		
1,2,3-Trichlorobenzene VSTD050S3		
2-Butanone VSTD050S3		
2-Hexanone VSTD050S3		
Methyl acetate VSTD050S3		
Carbon tetrachloride VSTD050S3		
1,2-Dibromo-3-chloropropane VSTD050S3		
Cyclohexane VSTD050S3		

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Continuing Calibration Verification

Continuing Calibration Verification	VOA_Low_Med
	Methyl tert-butyl ether VSTD050S3
	Acetone VSTD050S3
	1,2,4-Trichlorobenzene VSTD050S3
	1,1,1-Trichloroethane VSTD050S3
	1,1,2,2-Tetrachloroethane VSTD050S3
	Methylcyclohexane VSTD050S3
	F2B00, F2B02RE, F2B04RE, F2B06, VBLKS2

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DMC/Surrogate

DMC/Surrogate	VOA_Low_Med
VDSS3	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified.
	F2A94, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B16, F2B18
	Benzene-d6 F2B02, F2B02RE, F2B04RE
	Benzene
	1,2-Dichlorobenzene-d4 F2B06
	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Chlorobenzene
	Vinyl chloride-d3 F2B04RE
	Vinyl chloride
	1,2-Dichloroethane-d4 F2A94, F2B04, F2B04RE, F2B16, F2B18
	1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-Dibromoethane, 1,2-Dichloroethane, Carbon tetrachloride, Methyl acetate, Methyl tert-butyl ether, Methylene chloride, Trichlorofluoromethane
	trans-1,3-Dichloropropene-d4 F2B02, F2B02RE, F2B04, F2B04RE
	1,1,2-Trichloroethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene

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Detection Limit

Detection Limit	VOA_Low_Med
VDL1	The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified J. Nondetected compounds are not qualified.
	F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS1, VBLKS2, VBLKS3, VHBLKS1
	Styrene VBLKS3
	Tetrachloroethene F2B42, F2B50, VBLKS1, VHBLKS1
	1,2-Dichlorobenzene F2B40, F2B42, F2B44, F2B46, VBLKS3
	m,p-Xylene F2A96, F2B04RE, F2B40, F2B42, F2B44, F2B46, F2B50, VBLKS2, VBLKS3
	Trichlorofluoromethane F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B50, F2B60, VHBLKS1
	Toluene F2A94, F2A96, F2B04RE, F2B06, F2B18, F2B40, F2B42, F2B44, F2B46, F2B50, F2B60, VBLKS2, VBLKS3
	1,2,3-Trichlorobenzene F2B40, F2B42, F2B44, F2B46, VBLKS1, VBLKS2, VBLKS3
	1,4-Dichlorobenzene F2B40, F2B42, F2B44, F2B46, VBLKS3
	Ethylbenzene F2A96, F2B42, F2B50, VBLKS3
	Acetone F2B04RE, F2B48, F2B50
	1,2,4-Trichlorobenzene F2B40, F2B42, F2B44, F2B46, VBLKS1, VBLKS3
	o-Xylene F2A96, F2B42, F2B50, VBLKS3
	1,3-Dichlorobenzene F2B40, F2B42, F2B44, F2B46, VBLKS3
	Methylene chloride F2A94, F2A96, F2A98, F2B00, F2B02, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS1, VBLKS2, VBLKS3, VHBLKS1

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Initial Calibration

Initial Calibration		VOA_Low_Med
VC15		The following volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
		F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS1, VBLKS2, VBLKS3, VHBLKS1
		1,4-Dioxane VSTD005BS, VSTD005SS, VSTD010BS, VSTD010SS, VSTD050BS, VSTD050SS, VSTD100BS, VSTD100SS, VSTD200BS, VSTD200SS
		F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS1, VBLKS2, VBLKS3, VHBLKS1
Initial Calibration		VOA_Low_Med
VC20		The following volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and nondetected compounds are not qualified.
		F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS1, VBLKS2, VBLKS3, VHBLKS1
		1,4-Dioxane-d8 VSTD005BS, VSTD005SS, VSTD010BS, VSTD010SS, VSTD050BS, VSTD050SS, VSTD100BS, VSTD100SS, VSTD200BS, VSTD200SS
		F2A94, F2A96, F2A98, F2B00, F2B02, F2B02RE, F2B04, F2B04RE, F2B06, F2B14, F2B16, F2B18, F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS1, VBLKS2, VBLKS3, VHBLKS1
Initial Calibration		VOA_Low_Med
VC6		The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified. Use professional judgement to qualify non-detected compounds.
		F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS3, VHBLKS1
		1,2,3-Trichlorobenzene VSTD005BS
		F2B40, F2B42, F2B44, F2B46, F2B48, F2B50, F2B60, F2B62, VBLKS3, VHBLKS1

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Internal Standard

Internal Standard	VOA_Low_Med
VIS31	The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Detected compounds are qualified J. Nondetected compounds are qualified R.
	F2B02, F2B02RE, F2B04, F2B04RE
	1,4-Dichlorobenzene-d4 F2B02, F2B02RE, F2B04, F2B04RE
	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Bromoform

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TIC

TIC	VOA_Low_Med
VTIC1	A library search indicates a match at or above 85% for a TIC compound in the volatile sample Detected compounds are qualified NJ. Nondetected compounds are not qualified. F2B02, F2B02RE, F2B04, F2B04RE, F2B06 Adamantane, 1,3-dimethyl- F2B04, F2B04RE trans-Decalin, 2-methyl- F2B04 Decahydro-4,4,8,9,10-pentamethylnaphthalene F2B02, F2B02RE, F2B04RE Naphthalene, decahydro-2-methyl- F2B04RE, F2B06 Naphthalene, decahydro-2,6-dimethyl- F2B06
TIC	VOA_Low_Med
VTIC2	A library search indicates a match below 85% for a TIC compound in the volatile sample Detected compounds are qualified J. Nondetected compounds are not qualified. F2B04, F2B04RE, F2B06 Unknown 2-Pentanone, 4-cyclohexylidene-3,3-diethyl- F2B04 Unknown 3-Methyl-4-isopropylphenol F2B06 Unknown Naphthalene, 2-ethyldecahydro- F2B06 Unknown 1,2-Dimethyl-4-trifluoroacetoxycyclohexane F2B04 Unknown Bicyclo[2.2.2]octane, 1,2,3,6-tetramethyl- F2B04, F2B04RE Unknown cis,cis-1,6-Dimethylspiro[4.5]decane F2B04 Unknown 4-Isopropylcyclohexanone F2B04RE Unknown fluorocarbon F2B04RE Unknown 1-Octadecyne F2B06 Unknown trans, cis-3-Ethylbicyclo[4.4.0]decane F2B04RE Unknown Bicyclo[2.2.1]heptane, 1,7,7-trimethyl- F2B06 Unknown 2-Isopropyl-5-methyl-1-heptanol F2B06 Unknown dl-Camphoric anhydride F2B04 Unknown cis-Decalin, 2-syn-methyl- F2B04, F2B04RE Unknown Cyclohexanone, 3,3,5-trimethyl- F2B04RE Unknown Fluorocarbon F2B04, F2B04RE, F2B06 Unknown 3-Octene, 2,2-dimethyl- F2B06

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TIC

TIC	VOA_Low_Med
	Unknown Pentylenecyclohexane F2B04RE
	Unknown Norbornane, 2-isobutyl- F2B04
	Unknown Oxalic acid, heptyl 1-methyl ester F2B04RE
	Unknown Oxalic acid, hexyl 1-methyl ester F2B04
	Unknown Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1 F2B06
	Unknown Hexane, tetradecafluoro- F2B04, F2B04RE, F2B06
	Unknown cis,trans-1,6-Dimethylspiro[4.5]decane F2B06
	Unknown 1,1,6,6-Tetramethylspiro[4.4]nonane F2B04, F2B04RE
	Unknown Bicyclo[2.2.1]heptane-2,3-dione, 1,7,7-trimethyl F2B04RE